

INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP03/05123

A. CLASSIFICATION OF SUBJECT MATTER

Int.Cl⁷ H01L21/205, H01L21/31, H01L21/302

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

Int.Cl⁷ H01L21/205, H01L21/31, H01L21/302, C23C16/00-16/56

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

| | | | |
|---------------------------|-----------|----------------------------|-----------|
| Jitsuyo Shinan Koho | 1922-1996 | Toroku Jitsuyo Shinan Koho | 1994-2003 |
| Kokai Jitsuyo Shinan Koho | 1971-2003 | Jitsuyo Shinan Toroku Koho | 1996-2003 |

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

| Category* | Citation of document, with indication, where appropriate, of the relevant passages | Relevant to claim No. |
|-----------|--|-----------------------|
| A | US 6228173 B1 (Tokyo Electron Limited, Ltd.), 08 May, 2001 (08.05.01), Full text & JP 2000-182974 A | 1, 5-9 |
| A | US 6126753 A (Tokyo Electron Limited, Ltd.), 03 October, 2000 (03.10.00), Column 13, line 60 to column 19, line 11 & JP 2000-087244 A | 1-4 |
| A | US 6113700 A (Samsung Electronics Co., Ltd.), 05 September, 2000 (05.09.00), Column 6, line 50 to column 7, line 11 & JP 11-204444 A Par. No. [0020] | 1 |

☒ Further documents are listed in the continuation of Box C.
 ☐ See patent family annex.

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|---|--|
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| "A" document defining the general state of the art which is not considered to be of particular relevance | "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone |
| "E" earlier document but published on or after the international filing date | "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art |
| "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) | "&" document member of the same patent family |
| "O" document referring to an oral disclosure, use, exhibition or other means | |
| "P" document published prior to the international filing date but later than the priority date claimed | |

Date of the actual completion of the international search
07 July, 2003 (07.07.03)Date of mailing of the international search report
22 July, 2003 (22.07.03)Name and mailing address of the ISA/
Japanese Patent Office

Authorized officer

Facsimile No.

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INTERNATIONAL SEARCH REPORT

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PCT/JP03/05123

C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

| Category* | Citation of document, with indication, where appropriate, of the relevant passages | Relevant to claim No. |
|-----------|---|-----------------------|
| A | JP 9-017778 A (Fujitsu Ltd.), 17 January, 1997 (17.01.97), Page 3, line 20 (Family: none) | 1 |
| A | JP 2001-185544 A (Tokyo Electron Ltd.), 06 July, 2001 (06.07.01), Page 7; tables 1, 2 (Family: none) | 1 |